

4. Connect the SMDR Interface Unit's line cord to any unused station port on the KSU.

You are now ready to set and connect the printer.

Setting the Printer

Before you connect the printer, make sure the printer is set at:

- ☐ Speed: 300 to 4800 bits per second
- ☐ 8 bits per character
- ☐ No parity
- ☐ No XON, XOFF
- ☐ 1 start bit
- ☐ 1 stop bit

Note: The printer used for SMDR can be any RS-232 serial compatible device such as call accounting package, serial printer, call collection device, etc.

9 Pin Connector	25 Pin Connector	Signal Name	Direction
1		Not used	
2	3	Rx Data	From SMDR
3	2	TX Data	To SMDR
4	20	DTR	To SMDR
5	7	Signal Ground	
6	6	DSR	From SMDR
7		Not used	
8	5	CTS	From SMDR
9		Not used	

Figure 2 - RS-232 Pin Configuration

Connecting the Printer

To connect the printer:

1. Connect the cable to the RS-232 serial port of the printer.
2. Make sure that the KSU AC cord and printer are connected to a power source.

Note: Make sure no stress is placed on any of the port connections.

Testing the SMDR Interface Unit

Test the SMDR Interface Unit by dialing the Administration Feature Code from any Norstar telephone.

1. Press

2. Enter

The display shows:



Figure 3 - SMDR Administration Menu

Note: On M7100 and M7208 telephones, the second line of the display is not shown.

Troubleshooting

Problem: SMDR Interface Unit will not respond to Feature Code.

Resolution: Make sure you are using an M7100, M7208, M7310 or M7324 telephone to program the unit.

or

Check that the KSU port is operating by plugging in a working Norstar telephone. If the port is not operating, plug the SMDR Interface Unit into another port.

Wait 60 seconds after plugging the unit into a new port. It can take up to 60 seconds for the unit to become operational.

Refer to the **Station Message Detail Recording System Coordinator Guide** for additional troubleshooting information.

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SMDR Installation Card



Regulatory Information

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference with radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

THIS NOTICE IS PROVIDED TO COMPLY WITH THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS AND IS TO BE LEFT WITH THE SMDR INTERFACE UNIT.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.



If the telephone line is supported with auxiliary power, the power source must be a Class 2 power supply that is UL and CSA Listed.

Introduction

Installing the Station Message Detail Recording (SMDR) Interface Unit involves four steps:

1. Mounting the SMDR Interface Unit on the wall.
2. Connecting the unit to an available station port on the Key Service Unit (KSU).
3. Connecting the unit to the printer.
4. Testing the unit.

This installation card provides the steps necessary for installing SMDR.

Before installing SMDR, make sure that both the environmental and electrical requirements are met. Make sure you have all the equipment necessary to complete the installation.

Environmental Requirements

The environment for the SMDR unit should be:

- ☐ Temperature ranging from 0 - 50 degrees C (32 - 122 degrees F)
- ☐ Relative Humidity ranging from 5% - 95% non-condensing
- ☐ Station Loop Length not exceeding 300 m (1000 ft) 24 gauge
- ☐ Bridge Taps: Not allowed
- ☐ Loading Coils: Not allowed

Important: Only one SMDR Interface Unit can be installed per KSU. More than one unit can result in unpredictable system behavior.

Electrical Requirements

Power for the SMDR Interface Unit is provided by the KSU through the station loop. External power sources are not necessary. In the event of power failure or disconnection with the station loop, the unit stores information for a minimum of 72 hours.

Note: Use Norstar SAPS for station loop lengths from 1000 to 2600 feet. Refer to the **SAPS Installation Guide**.

Parts Checklist

To install the SMDR Unit, make sure you have:

- ☐ SMDR Interface Unit.
- ☐ Key Service Unit
- ☐ Serial Printer
- ☐ 9 to 25 pin adapter (provided)
- ☐ Printer cable
- ☐ Number 8 x 3/4" screw (for wall mounting)
- ☐ Screwdriver

Mounting the Unit

The SMDR Interface Unit must be installed within 300 meters (approximately 1000 feet) of the KSU.

To install the unit:

1. If required, attach the 25 pin connector to the printer cable by tightening the thumb screws.
2. Attach the 9 pin connector to the RS-232 port located at bottom of the SMDR Unit by tightening the thumb screws.
3. Use a number 8 screw to mount the Unit through the mounting bracket onto the wall.



Figure 1: Mounting the SMDR Interface Unit